

## Vacsol® Azure RTU

### 1.0 Description

#### 1.1 Active Ingredients

Concentration	Constituent	CAS Number
3.2 g/L	Permethrin (25:75)	52645-53-1
4.5 g/L	Tebuconazole	107534-96-3
4.5 g/L	Propiconazole	60207-90-1
3.56 g/L	Vacsol®WR	
729 g/L	Solvent Liquid Hydrocarbons	

#### 1.2 Appearance

Clear amber coloured liquid with solvent odour.

#### 1.3 Function

**Vacsol® Azure** is a solvent based, tri functional wood preservative containing fungicides (propiconazole & tebuconazole), an insecticide/termiticide (permethrin), and a water repellent system.

It is recommended for the treatment of timber against attack by borers, termites and fungi in above ground situations.

### 2.0 Formulation

Solubility	insoluble in water
Specific Gravity	0.8 @ 20°C
Flash Point	41°C (closed cup)
LEL	0.7 %v/v
UEL	6.5 %v/v
VOC content	64 %m/v

### 3.0 Directions for Use

#### 3.1 General

**Vacsol® Azure** is a Light Organic Solvent Preservative (LOSP) supplied as a ready to use (RTU) product. It is specifically formulated for the treatment of timber to be used outside and above ground (Hazard level (H3) situations).

**Vacsol® Azure** is an APVMA registered chemical (No. 56786) and should be used in accordance with the label instructions and Timber Utilization and Marketing Act (Qld), Timber Marketing Act (NSW) or AS/NZS1604 where applicable.

#### 3.2 Pest

**Vacsol® Azure** provides protection against Insects including auger beetles (Bostrychidae), powder post beetles (Lyttidae), pinhole borers (Platypodidae) & furniture beetles (Anobiidae). Termites including drywood (Cryptotermes) and subterranean (Coptotermes & Schedorhinotermes) and giant termites (Mastotermes).

Fungal decay (including brown, white and soft rots) and fungi.

#### 3.3 RTU Solution

**Vacsol® Azure** is supplied as a ready to use (RTU) product, therefore mixing is generally unnecessary. After periods of prolonged plant closure, e.g. during maintenance or holidays, agitation of the solution in all tanks is recommended. If **Vacsol® Azure** is supplied with a pigmented colour system, continual agitation of all tanks is essential to prevent settlement and subsequent caking of the colourant.

**Vacsol® Azure** solutions should not be mixed with any other chemicals except under guidance from Lonza.

#### 3.4 Preparation of Timber for Treatment

Timber for treatment should be totally free from decay and insect attack. Timber affected by sapstain should not be treated because excessive absorption of treating solution occurs. Timber must be below 20% moisture content and should be in final shape and form with all machining and rip sawing completed.

Timber can be treated effectively either block stacked or strip stacked. The choice on what format to use will depend on the plants capabilities, the product being treated and the end use customers' requirements.

#### 3.5 Application Method

**Vacsol® Azure** is intended to be applied using a pressure treating plant suitable for Light Organic Solvent Preservatives and complying with AS2843. Treating schedules may vary significantly depending on equipment and wood characteristics thus requiring confirmatory sample testing to be conducted on a regular basis.

Typically, LOSP schedules that are known to be previously successful in achieving compliance to required standards in the past will remain unchanged. The required retentions are

Tebuconazole	0.03% m/m
Propiconazole	0.03% m/m
Permethrin	0.02% m/m

#### 3.6 Application Rate

The following minimum absorption (uptake) is required to achieve the minimum retentions stated above

Wood Density kg/m <sup>3</sup>	Minimum Uptake Litres/m <sup>3</sup>
350	24
400	27
450	30
500	34
550	37
600	40

To determine whole charge uptake targets, allowance must be made for variations in retention caused by wood density, structure, heartwood content, moisture content and plant performance. Typically, this allowance can be 30% but



Australia: 1300 650 636

Melbourne: 03 9339 8915

[www.lonza.com](http://www.lonza.com)

[www.lonzawoodprotection.com](http://www.lonzawoodprotection.com)

### Vacsol® Azure RTU

should be determined through proper sampling, statistical analysis of laboratory results, and assessment of timber prior to treating.

#### 3.7 Penetration Requirements

**Vacsol® Azure** shall be applied such that the penetration requirements (as applicable) of Timber Utilization and Marketing Act (Qld), Timber Marketing Act (NSW) or AS/NZS1604 are met.

### 4.0 Vacsol® Azure Treated Wood

#### 4.1 End Uses

**Vacsol® Azure** treated timber is intended for use in exposed, above ground situations, such as fascia, weatherboards, plywood cladding, door and window surrounds, hand rails, laminated posts and beams, etc.

#### 4.2 Dimensional Stability

The dimension or physical appearance of timber components generally remains unaltered after treatment with **Vacsol® Azure**. If **Vacsol® Azure** is supplied with a colourant, timber will take on a shade similar to that of the colourant.

#### 4.3 Disposal

**Vacsol® Azure** treated wood offcuts, sawdust etc should be disposed to landfill. Never burn **Vacsol® Azure** treated wood.

#### 4.4 Gluing

Components may be glued satisfactorily with any standard "two pack" glue, with the exception of Casien based products. The active ingredients and solvent in **Vacsol® Azure** have no harmful effects on fully cured adhesives. The glue manufacturers' instructions should be referred to and followed at all times.

#### 4.5 Cutting and Sawing

Cross cuts, notches and holes may expose untreated heartwood and must be brushed or sprayed with a cut end preservative. Rip sawing, grooving, planing or heavy sanding should not be undertaken unless the timber is returned for re treatment.

#### 4.6 Solvent Drying

Freshly **Vacsol® Azure** treated wood may appear oily to touch and smell strongly of the solvent carrier. Adequate drying time must be allowed for solvent evaporation before further processing, handling, priming or painting. Storage area should be well ventilated and timber protected from rain. Use of fillets will improve solvent evaporation time.

#### 4.7 Priming and Painting

The rate of solvent evaporation is dependent upon initial fluid uptake, timber dimensions, stacking conditions (degree of filleting), ambient temperature, air flow and humidity. As a general rule, treated timber should be allowed to dry uncoated for 7 days. Under ideal or accelerated drying

conditions, a shorter drying time may be prove appropriate, however, acrylic primers are particularly susceptible to residual solvent and the minimum 7 day period is recommended.

In general, good quality oil based primers may be applied 48 hours after treatment however a further extensive period of drying may be necessary when an acrylic based topcoat is likely to be used. Refer to the paint manufacturer for specific instructions.

### 5.0 Safety & Handling

#### 5.1 General

**Vacsol® Azure** is flammable, irritating and harmful, and thus requires special care for safe handling.

A Material Safety Data Sheet is available from Lonza

#### 5.2 Handling the product

**Vacsol® Azure** is flammable (flash point 38°C), thus the relevant safety standards should be followed with regard to sources of ignition and separation distances. In Australia, the relevant standard is AS1940.

Avoid direct contact with the product and maintain high standards of workplace hygiene. Do not eat, drink or smoke while using **Vacsol® Azure**. Protective clothing of overalls, impermeable gloves and safety boots should be worn at all times, plus safety glasses/goggles and organic vapour respirator/masks when circumstances require.

After use and at the end of work, wash hands, arms and face before eating, drinking, smoking or using toilet facilities. Launder protective clothing and equipment separately from household laundry.

#### 5.3 Safety and First Aid

In case of eye contact, flush eyes with cold water for at least 15 minutes and seek medical attention. If skin contact occurs, wash affected areas with soap and cold water and seek medical attention if irritation persists. If swallowed or inhaled, seek medical advice. Show a copy of the **Vacsol® Azure** MSDS to the attending medical practitioner.

### 6.0 Storage and Transport

#### 6.1 Transport

UN Number:	UN1993 Flammable Liquid N.O.S
Dangerous Goods Class:	3
Hazchem code:	3[Y]
Poison Schedule:	S5



Australia: 1300 650 636

Melbourne: 03 9339 8915

[www.lonza.com](http://www.lonza.com)

[www.lonzawoodprotection.com](http://www.lonzawoodprotection.com)

## Vacsol® Azure RTU

### 6.2 Storage

**Vacsol® Azure** must be stored in an approved facility complying with AS1940.

**Vacsol® Azure** is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

### 6.3 Spills and Disposal

Wear protective clothing. Remove all sources of ignition. Stem leak at source if possible, then dam spill with soil or sawdust. Pump liquids into suitable containers for re-use, then absorb residue with sawdust, sand or soil. Prevent fluid escape in public drains and waterways – in event of major spillage alert emergency services.

### 6.4 Environmental Protection

This product is toxic to fish and wildlife. Do not contaminate dams, ponds, water ways or drains with the product, used containers or equipment. Plants using **Vacsol® Azure** should be designed for zero discharge of the active constituents.

## 7.0 Packaging

Supplied in bulk road tankers.

### In case of chemical emergency contact:

**Emergency Services - 000**  
**LONZA Emergency Response - 1800 796637**

*Vacsol is a registered trademark of Arch Timber Protection, A Lonza Company. ©Lonza2016*

